

## MEET THE STAFF



KENNETH LUCAS, Supervisor of the Junior Academy (formerly the Student Section), is not too far removed by either age or enthusiasm from his mercurial charges who engage in this important Academy activity. The best indication is that at this writing, Ken harbors in his own home tropical fish, iguanas, lizards, a Gaboon and Rhinoceros viper, turtles, tortoises, and a Mongolian gerbil—a total population which he says is small compared to the past when there used to be a host of guinea pigs, cats, dogs, rabbits—and any other itinerant animal that happened to pass his fancy. His parents forced a curtailment.

Ken started his career at the Academy as a part-time worker in Steinhart Aquarium's feed room some two years ago. For the past year he has held his present job with the young people who come to the Academy for a heightening of interests zoological. (His department is open, during the school year, Tuesday through Saturdays with a separate schedule during the summer vacation months. Field trips are planned at intervals for both the junior and senior tyro scientists whose age can vary from 10 to 21 years).

Born in Alameda, Ken received his schooling at Fremont High School and Merritt College in Oakland, and is now, on a part-time basis, majoring in biology at San Francisco State College. His greatest desire is to finish his education, all the while keeping his close association with the CAS. Eventually, he would like to concentrate on marine biology and arachnid research.

When not riding herd on a herd of amateur biologists or doing his homework or caring for his pets, Ken enjoys collecting stamps, camping in wilderness areas, road racing, and breeding tropical fish. His days are filled.

## NEW MEMBERS OF THE ACADEMY

### Regular Membership

Mr. T. Moore Atkinson	Mrs. Amy Miller
Mr. Harry Babcock	Dr. Earl R. Miller
Miss Joy L. Bailey	Dr. John D. Mizelle
Mr. James H. Benney	Mr. M. H. McCallum
Miss Kathleen Blamey	Mr. Earl McCann
Mr. Larry Colton	Mr. Richard A. McCourt
Miss Judy Dunlap	Miss Eleanor Norris
Mrs. Roger C. Fletcher	Mr. Richard O'Hanlon
Dr. Frederic L. Frye	Mrs. Winifred S. O'Neill
Mr. Gordon L. Grosscup	Dr. Benjamin Papermaster
Mrs. Davis A. Hearn	Mr. George D. Peterson, Jr.
Mr. David E. Herbert	Mr. Nels C. Ring
Miss Joan Herbert	Mr. Howard E. Schorn
Mr. Raymond Hunter	Mr. Albert C. Strohmaier
Mr. Roy Johnson, Jr.	Miss Barbara Ann Trowbridge
Mr. David C. Lindsey	Miss Carol Whiting
Mr. Don Long	Mr. William C. Wilber
Mrs. Esther G. Lonie	Mr. Don H. Wilcoxen
Marine Military Academy	Mr. Pete M. Zamboanga

### Family Membership

Mr. David Allen	Mr. & Mrs. Dan Knott
Dr. & Mrs. Stanley Berkowitz	Mr. Arthur L. Reno
Mr. R. C. Colombe	Mr. Laurence C. Rogers
Miss Flora Dean	Mr. William Gregg Rowbury
Dr. J. W. Fitzsimmons	Mr. & Mrs. Carl Rudolph
Dr. Laurence V. Foye	Ruigh Family
Dr. & Mrs. Mark Gornev	Mr. C. Calvert Smoot
Mr. & Mrs. Alan Hochschild	Dr. & Mrs. Fred Trevitt
Miss Alma R. Johnson	Mr. & Mrs. John K. Truscott
Mr. & Mrs. Ronald Kidd	Mr. & Mrs. Robert Uomoto
Mr. & Mrs. Bruce L. Wiggins	

### Contributing Members

Mr. Harvey R. Lorber  
Dr. Charles F. Eberle

### Life Membership

Mr. Stephen Rodney Heizer

### Student Membership

Pierre Asselin	Michael Lonie
Kim Banks	Howard Lum
Paul Bellomo	Linda Sue Matheny
John Cornish	David Moore
Joe Dills	Robert Ortega
John Dills	Annie Panlibuton
Marilyn Foley	Gordon Phillips
Dennis Johnston	Jonathan Schneider
Jean Juvik	Donna Schulz
Lori Kirlvin	Barbara Spencer
Nancy Kirlvin	Renee Wardell
David A. Leeshoff	Cliff Whearly
Chris Lim	Gavle Willard
Lillian Lim	Patricia Willard

THE CALIFORNIA ACADEMY OF SCIENCES  
GOLDEN GATE PARK • SAN FRANCISCO 94118

Open every day of the year  
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Admission Free

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hereby applies for..... \*membership in the Academy.

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Regular Membership . . . . . \$ 10	
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(includes all family members of one household)	
Contributing Membership . . . . . 25	
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Life Membership . . . . . 250	

## ACADEMY NEWSLETTER

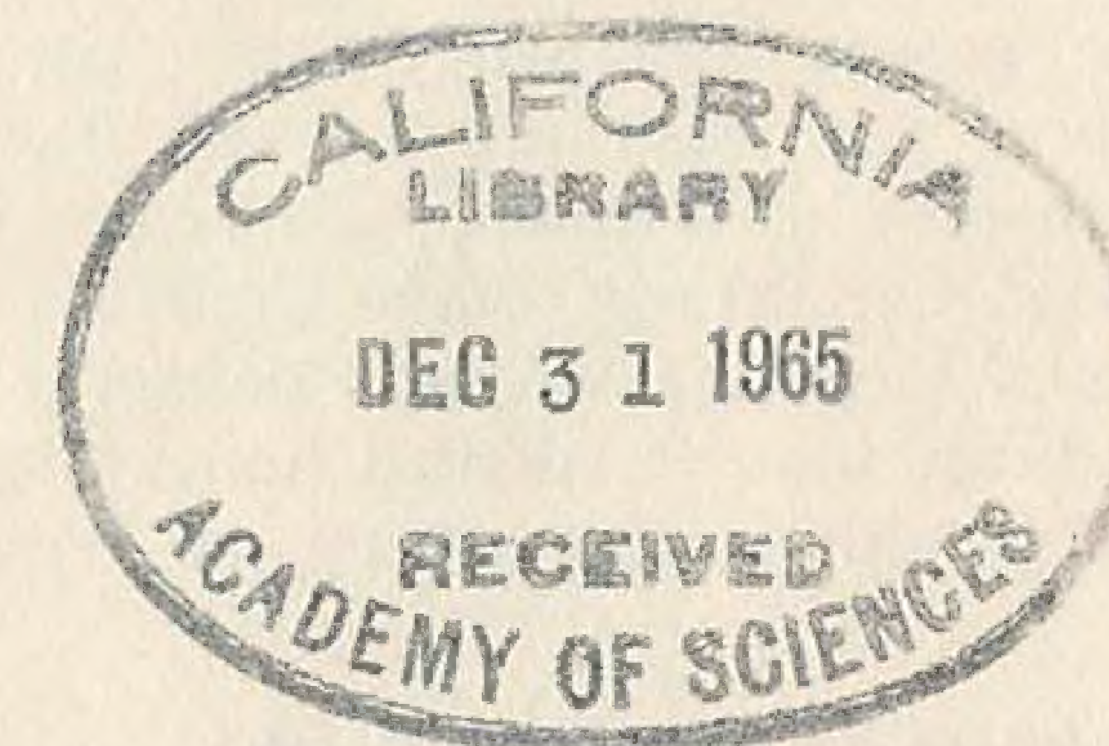


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# JANUARY

at the

CALIFORNIA ACADEMY OF SCIENCES

## JANUARY MEETING

DATE: Wednesday, January 19, 8:15 p.m.  
PLACE: Morrison Auditorium  
SPEAKER: Mildred Capron  
SUBJECT: "SKY HIGH IN WYOMING"

This will be an evening of pure Americana, an appreciative look at one of the handsomest states. Whether it be a wild horse roundup, the Oregon trail, cowboys and Indians, a pack trip into the wilderness area of the Wind River Mountains, ranching, rodeos, the Devil's Tower, prairie dogs, rock chucks, antelope, sage grouse, trumpeter swans, the Arapaho Wolf Dance, gold rush towns, wild flowers, or golden trout—it is all Wyoming captured on color film.

Miss Capron has sought knowledge in many countries of the world but has retained a special place in her heart for her adopted home. Her film shows it as it is without glamorizing the West.

## MORRISON PLANETARIUM

"THE CHRISTMAS STAR" will play through January 2. Beginning January 5:

"THE GREAT BOMBARDMENT," a provocative sky show which examines the fantastic phenomena of meteors and meteorites. Empty space is far from empty and the earth accretes perhaps as much as 1000 tons of matter per day.

Performances daily at 3:30 p.m. with evening shows, Wednesday through Sunday, at 8:30. Extra matinees at 2:00 on Saturdays and Sundays. The planetarium is closed on Monday and Tuesday nights. With "The Great Bombardment," Morrison Planetarium adopts two new policies. Instead of presenting different sky show each month, shows will now run two months because of the production involved. Thus, "Bombardment" will be presented through February 27. Secondly, a modest increase in the price of tickets has been established: Adults, \$1.00, juniors, 50c. There is no change in the price of admission for the shows specially scheduled for students.

## SPECIAL EXHIBITS

Exhibit of the Month: "CELESTIAL GLOBE," loaned to the Academy by the Chabot Observatory of Oakland. Main Foyer, Science Museum.

"BEAUTY IN WILDERNESS", color photographs by Mr. C. Edward Graves, in Lovell White Hall of Man and Nature. This show is for one month only and will close January 30.

"THE TRIADS", a comprehensive story of America's space effort, will be on display in Simson African Hall through early March. Presented on five "islands," each includes actual-size replicas of various satellites launched by the U.S. be they for manned spaceflight, communications, or scientific experimentation or research.

This is one of the largest and most extensive temporary exhibits ever erected at the Academy.

"SCIENCE IN ACTION" (Schedule for viewers in the San Francisco Bay Area: Wednesdays at 7:00 p.m., with a repeat telecast on Sundays at 6:00 p.m., KQED Channel 9. For other areas, consult the listings in your local paper.)

### Week of

- Jan. 5-9: "AIR TRAFFIC CONTROL", with Guest Scientist Mr. Fred M. Marks, Oakland Air Route Traffic Control Center.  
Jan. 12-16: "ANCIENT DEATH TRAP" (The Rancho La Brea 'tar pits') with Dr. Theodore Downs, Los Angeles County Museum.  
Jan. 19-23: "TIME AND TWO CELLS", with David Alvra Wood, M.D., University of California Medical Center.  
Jan. 26-30: "SALT", with Alan Woodhill, Leslie Salt Company.

## NEWS and NOTES . . . . .

THREE NEW RESEARCH ASSOCIATES have been selected to join the staff of the Department of Aquatic Biology of Steinhart Aquarium. They are Fredric L. Frye, Doctor of Veterinary Medicine, California Department of Public Health; Dr. Benjamin Papermaster of the Department of Biology, University of California at Berkeley; and Dr. John D. Mizelle, Head, Life Science Department, Sacramento State College.

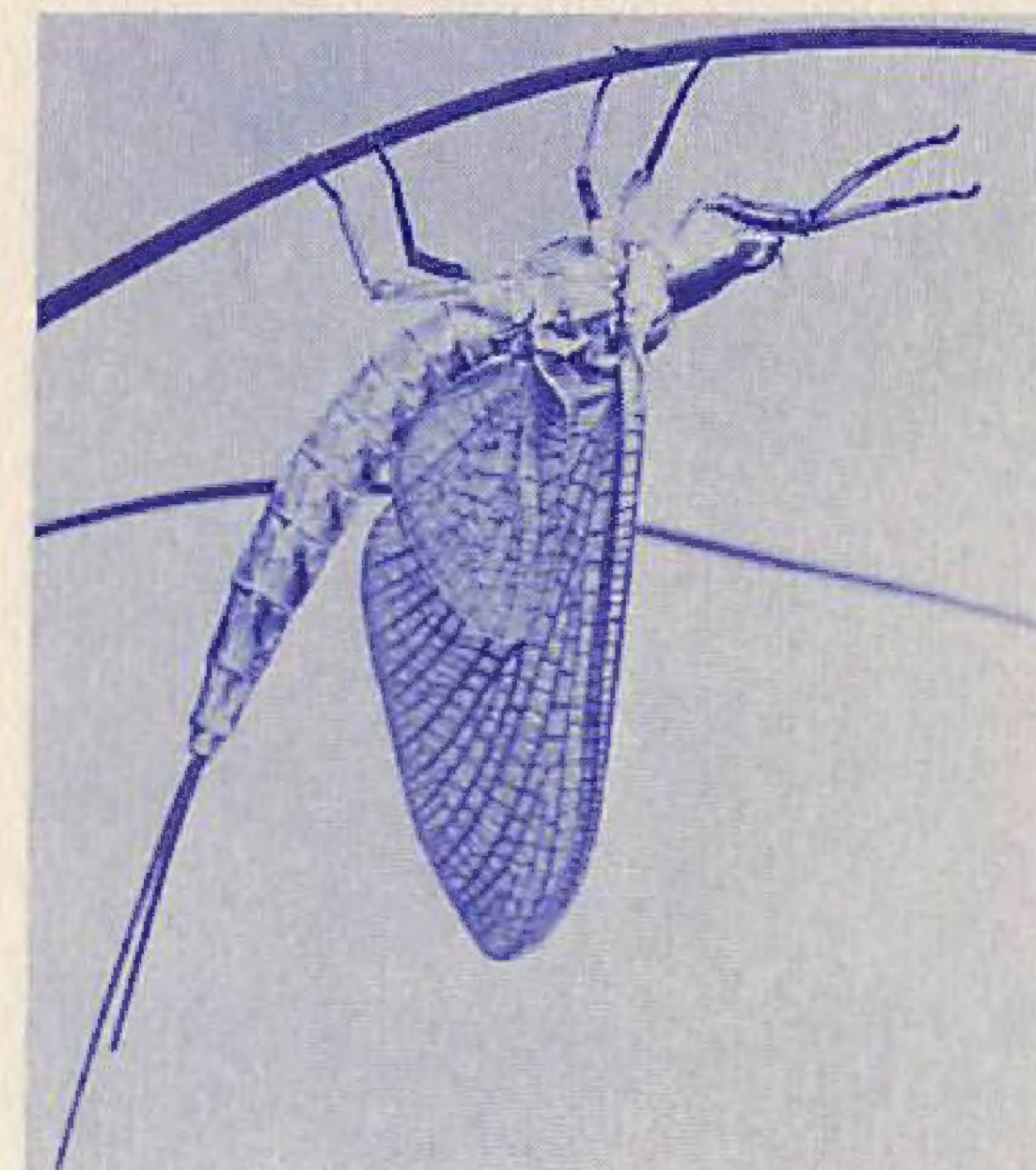
The honorary position of Research Associate is for a term of five years given in recognition of significant contributions to science and a close professional association with the Academy.

ANNOUNCEMENT HAS BEEN MADE of the election of Dr. J. Wyatt Durham, Vice President of the Academy, as President of the Paleontological Society, an international organization of some 1,200 paleontologists of all types devoted to the furtherance of paleontological research. Dr. Durham, who serves with the Department of Paleontology at the University of California, is an acknowledged authority on the paleontology of western American Tertiary mollusks, Eocene invertebrate paleontology, fossil corals, echinoids, and the geology and paleontology of the West Coast, Sumatra, Colombia, and Mexico. He is currently engaged in the study of early Paleozoic echinoderms.

Dr. Durham has been a member of the Board of Trustees since 1955.

THE FOLLOWING PARAGRAPHS are an affectionate tribute to the memory of the late Willis C. (Bill) Day, prominent San Francisco advertising executive, who died last October at the age of 70. Through an unordinary chain of events, Mr. Day became thoroughly involved with the Academy and the science of entomology. The story of how this came about is a warm and delightful one to tell.

Mr. Day was an inveterate trout fisherman—and a success. In fact, he was so expert at this favorite recreation that he could take the limit of trout with such ease and speed that he sought further challenges to add zest to the sport. He became engrossed with lures—the kind that can be purchased at Abercrombie & Fitch—an decided, as have many fishermen before him, that he could do even better by tying



As an adult, this graceful, short-lived mayfly takes no food.

Photo by Dr. Edward S. Ross

his own. Being of logical mind and a member of the Academy since 1948, he knew that his imitations of mayflies (a favored food of trout) should follow nature, a conclusion that brought him to the Department of Entomology. With this first inquiry started an interest in the biology of Ephemeroptera that was to give him, as he stated himself, one of the deepest satisfactions of his life.

The creation of a handmade, psuedo-mayfly was only the beginning and his interest went deeper and deeper as members of the entomology staff gave him further counsel. Field work and collecting, enthusiastically shared by Mrs. Day, led to the building of a laboratory in his own home. He worked out ingenious methods for capturing insects and 'bringing them back alive' from the streams of California. He proceeded to breed them, raise them, examine them under microscopes, make observations, drawings, conclusions—the complete sequence of the trained research scientist.

The best indication as to just how successful he was is that he became the recognized expert in Ephemeroptera on the Pacific Coast, wrote the definitive chapter on mayflies for the distinguished tome entitled "The Aquatic Insects of California," was elected president of the Pacific Coast Entomological Society, and chosen a Fellow of the Academy in 1960—all because he was a successful but impatient fisherman.

He was a great friend of the Academy and gave financial assistance more than once to promote various activities within it. His involvement with Ephemeroptera and the CAS has nothing ephemeral about it. Not only we but the entire realm of science remain indebted.

ASTRONOMY COURSES offered by the staff of Morrison Planetarium continue to be a significant achievement, so much so that two courses of instruction will be offered again beginning next month. Starting Monday evening, February 7: "ASTRONOMY APPRECIATION," and on Tuesday, February 8, "CELESTIAL NAVIGATION." Your attention is directed to a newly established "family plan" which offers a pleasant discount when more than one member attends a course of instruction.

For more information, telephone the Planetarium Office at BAYview 1-5100.

HAPPY NEW YEAR!